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APPLICATION NO.	FILING DATE	· FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/812,952	03/31/2004	Hongyu Yue	071469-0308801	4890		
909	909 7590 07/12/2006			EXAMINER		
PILLSBURY WINTHROP SHAW PITTMAN, LLP			KACKAR, RAM N			
P.O. BOX 10500 MCLEAN, VA 22102			ART UNIT	PAPER NUMBER		
			1763			
			DATE MAILED: 07/12/2006			

Please find below and/or attached an Office communication concerning this application or proceeding.

ي ع		Application No.	Applicant(s)				
		10/812,952	YUE ET AL.				
	Office Action Summary	Examiner	Art Unit				
		Ram N. Kackar	1763				
Period fo	The MAILING DATE of this communication apport Reply	pears on the cover sheet with the	correspondence address				
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR REPL' CHEVER IS LONGER, FROM THE MAILING D. nsions of time may be available under the provisions of 37 CFR 1.1 SIX (6) MONTHS from the mailing date of this communication. O period for reply is specified above, the maximum statutory period or tre to reply within the set or extended period for reply will, by statute reply received by the Office later than three months after the mailing ed patent term adjustment. See 37 CFR 1.704(b).	ATE OF THIS COMMUNICATIO 36(a). In no event, however, may a reply be tin will apply and will expire SIX (6) MONTHS from the, cause the application to become ABANDONE	N. mely filed n the mailing date of this communication. ED (35 U.S.C. § 133).				
Status							
1)⊠	Responsive to communication(s) filed on 27 A	pril 2006.					
	This action is FINAL . 2b) This action is non-final.						
3)	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
	closed in accordance with the practice under E	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.				
Dispositi	ion of Claims						
4)⊠	4)⊠ Claim(s) <u>1-34 and 36-65</u> is/are pending in the application.						
	4a) Of the above claim(s) <u>1-33</u> is/are withdrawn from consideration.						
	Claim(s) is/are allowed.						
6)⊠	6) Claim(s) 34 and 36-65 is/are rejected.						
7)	Claim(s) is/are objected to.						
8)□	Claim(s) are subject to restriction and/o	r election requirement.					
Applicati	on Papers	·					
9)□	The specification is objected to by the Examine	ar					
	The drawing(s) filed on is/are: a) ☐ acc		Examiner.				
,_	Applicant may not request that any objection to the						
	Replacement drawing sheet(s) including the correct						
11)	The oath or declaration is objected to by the Ex						
Priority u	ınder 35 U.S.C. § 119						
_	Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).				
a)[☐ All b) ☐ Some * c) ☐ None of:1. ☐ Certified copies of the priority documents	a have been received					
	2. Certified copies of the priority documents		ion No				
	3. Copies of the certified copies of the prior						
	application from the International Bureau		sa in this Hational Otage				
* S	See the attached detailed Office action for a list		ed.				
Attachment	i(s)						
1) 🔯 Notice	e of References Cited (PTO-892)	4) Interview Summary	(PTO-413)				
2) 🔲 Notic	e of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate				
	nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	5)	Patent Application (PTO-152)				

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 2. Claims 34, 36-44, 46-49, 51-62 and 64-65 are rejected under 35 U.S.C. 102(b) as being anticipated by Kagoshima et al (US Pub 2003/0003607) as evidenced by Bonser et al (US 6245581).

Kagoshima et al disclose a processing chamber configured for loading and processing a substrate for etching specially on a gate electrode structure (Fig 2 and Paragraph 29), a storage for a process model (Fig 2-25) capable of creating a set of process parameters like gas supply RF Power etc (Fig 1-4) from the processed result critical dimensions and target value (26 and 28) and measuring system (CD-SEM 30 and X-SEM 31).

Claims 37-38, 41-44, 46-49 and 51-54 are directed to functional limitations.

It has been held that claims directed to apparatus must be distinguished from the prior art in terms of structure rather than function. *In re Danley*, 120 USPQ 528, 531, (CCPQ 1959); "

Apparatus claims cover what a device is, not what a device does" (Emphasis in original) *Hewlett-Packard Co. V. Bausch & Lomb Inc.*, 15USPQ2d 1525, 1 528 (Fed. Cir. 1990); and a claim containing a (recitation with respect to the manner in which a claimed apparatus is intended to be employed does not differentiate the claimed apparatus from a prior art apparatus" if the prior art

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apparatus teaches all the structural limitations of the claim Ex parte Masham, 2 USPQ2d 1647 (Bd. Pat. App. & Inter. 1987). Also see MPEP 2114.

Claims 55-62 are directed to a substrate. It has been held that inclusion of material or article worked upon by a structure being claimed does not impart patentability to the claims. In re Young, 75 F.2d 966, 25 USPQ 69 (CCPA 1935) (as restated in In re Otto, 312 F.2d 937, 136 USPQ 458, 459 (CCPA 1963)). Similarly expressions relating the apparatus to contents thereof during an intended operation are of no significance in determining patentability of the apparatus claim. Ex parte Thibault, 164 USPQ 666, 667 (Bd. App. 1969).

Regarding the transfer system, since the apparatus is disclosed to be capable of processing a substrate by plasma it is inherent that there will be some transfer system to position the substrate on a processing holder or electrode.

Regarding the subject matter of previous claim 35 - which was indicated functional limitation- incorporating in claim 34 it is noted that no patentable addition has been done.

However even this functional limitation of repeating an etch process to complete the trim if not achieved once, is known in the prior art (See Abstract of Bonser et al US 6245581).

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 45, 50 and 63 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kagoshima et al (US Pub 2003/0003607) in view of Gardner et al (US 6087238).

Kogashima et al is discussed above. Kagoshima et al disclose plasma-etching system but do not disclose wet processing.

Gardner et al disclose apparatus for gate electrode width trimming (Abstract) and disclose wet processing as an alternative to plasma (Col 4 lines 59-62).

Therefore it would be obvious for one of ordinary skill in the art at the time of invention to use controller taught by Kagoshima et al for wet processing as an art recognized equivalent.

Response to Arguments

Applicant's arguments filed 4/27/2006 have been fully considered but they are not persuasive.

Applicant argues that the language of processing system employed encompasses apparatus as well as process. This point is not persuasive since Apparatus and Method are recognized as two distinct entities. As to a functional language defining a structure, no additional structure is defined by the recited functional limitations.

Conclusion

THIS ACTION IS MADE FINAL. Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the mailing date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ram N. Kackar whose telephone number is 571 272 1436. The examiner can normally be reached on M-F 8:00 A.M to 5:P.M.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Parviz Hassanzadeh can be reached on 571 272 1435. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Ram Kackar

Primary Examiner AU 1763